

# Technical Service Bulletin



## 40 Noises from front shock bellows when steering or when the front suspension is compressed

40 16 54 2044060/2 June 9, 2016. Supersedes Technical Service Bulletin Group 40 number 16-52 dated May 5, 2016 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A3	2015 - 2017	All	Without Audi magnetic ride
TT	2016 - 2017	All	Without Audi magnetic ride

## Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised header data (Added model year)
1	5/5/2016	Initial publication

**Before proceeding, note that this bulletin does not apply to vehicles equipped with Audi magnetic ride.**

- Customer may report hearing squeaking/creaking or rattling noises from front end when steering or when the front suspension is compressed.
- The noise can be reproduced in the workshop and is heard from the upper section of the front suspension strut.

## Technical Background

The front shock protective cover (or "bellows") can be deformed or incorrectly positioned for various reasons (such as improperly seated transportation blocks or improper installation after repairs), and as a result, can make noises in the upper section of the suspension strut (Figure 1).



**Figure 1.** Front shock assembly with front shock protective cover highlighted.

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## Production Solution

Not applicable.

## Service

1. Check the front shock protective covers for correct fit:
  - Properly-installed front shock protective covers should turn easily in the deep-groove ball bearings (Figure 2).
  - Improperly-installed front shock protective covers will not turn in the deep-groove ball bearings (Figure 3).
2. Repair by repositioning the front shock protective covers so that they are installed correctly, as shown (Figure 2).

If the front shock protective cover cannot be reinstalled correctly due to permanent damage or deformation, it must be replaced.

## Warranty

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	4091		
<b>Damage Code:</b>	0017 Reinstall front shock protective cover(s) or 0010 Replace front shock protective cover(s)		
<b>Labor Operations:</b> (Only one of the four scenarios can be claimed.)	<b>Scenario 1: Check and reinstall only</b>		
	Check and reinstall 1 or 2 protective covers	4091 0699	40 TU
	<b>Scenario 2: Replace the left front protective cover</b>		
	Suspension strut remove+reinstall	4085 1901	150 TU
	Replace protective cover	4091 5699	30 TU
	<b>Scenario 3: Replace the right front protective cover</b>		
	Suspension strut remove+reinstall	4085 1902	210 TU
	Replace protective cover	4091 5699	30 TU
	<b>Scenario 4: Replace two protective cover (two shocks)</b>		
	2 Suspension struts remove+reinstall	4085 2002	290 TU

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	Replace 2 protective covers	4091 5599	50 TU
<b>Diagnostic Time:</b>	GFF	No allowance	0 TU
	Road test prior to service procedure	0121 0002	10 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
<b>Claim Comment:</b>	As per TSB #2044060/2		

## Required Parts and Tools

If the front shock protective cover cannot be properly reinstalled due to permanent damage or deformation it must be replaced. Claims with undamaged parts will be denied.

Part Number	Part Description	Quantity
5Q0413175C	Protective covers (bellows)	1 or 2

## Additional Information

All parts and service references provided in this TSB (2044060) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.